

**AMENDMENTS TO THE ABSTRACT:**

Amend the abstract as follows:

A heat transfer apparatus for use in measuring a rheological property of a test sample includes a receptacle for receiving the test sample and a heat conveying member in heat transfer relation to the receptacle. The heat conveying member has internal passages extending substantially equidistantly from one another through at least a portion of the heat conveying member to provide for ~~counter-flowing~~ counter-flow circulation of a fluid. The heat transfer apparatus may include ~~A cold cranking simulator includes a hybrid heat transfer system having~~ heat exchanging elements in heat transfer relation to the receptacle responsive to electric current to transfer heat to or from the receptacle. ~~The cold cranking simulator further includes a heat conveying member having internal passages providing for counter-flowing circulation of a fluid.~~